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Anti-Glycerate Kinase Antibody

Catalog # AP53912

Product Information

Application	WB, IHC, IF/IC
Primary Accession	Q8IVS8
Reactivity	Human, Mouse, Rat, Bovine, Mk
Host	Rabbit
Clonality	Polyclonal
Calculated MW	55253

Additional Information

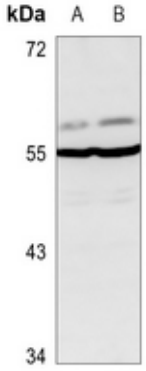
Gene ID	132158
Other Names	HBEBP4; Glycerate kinase; HBeAg-binding protein 4
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human Glycerate Kinase. The exact sequence is proprietary.
Dilution	WB~~1/500 - 1/1000 IHC~~1/50 - 1/200 IF/IC~~N/A
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

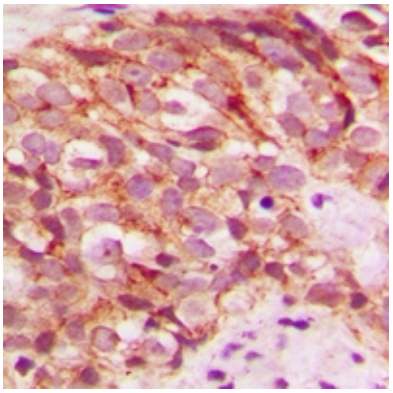
Name	GLCTK
Function	Catalyzes the conversion of glycerate to phosphoglycerate (PubMed:20949620). This conversion is an intermediary reaction found in several metabolic pathways (Probable).
Cellular Location	[Isoform 1]: Mitochondrion matrix
Tissue Location	Widely expressed.. [Isoform 2]: Expressed at highest levels in the liver, followed by testis and kidney.

Images

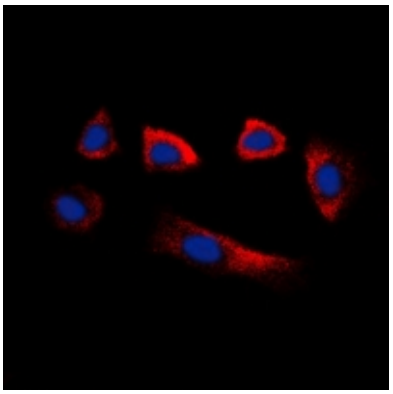
Western blot analysis of Glycerate Kinase expression in mouse liver (A), rat liver (B) whole cell lysates. (Predicted



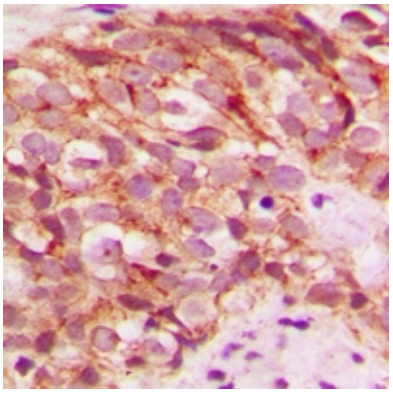
band size: 55 kD; Observed band size: 55 kD)



Immunohistochemical analysis of Glycerate Kinase staining in human breast cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Immunofluorescent analysis of Glycerate Kinase staining in HepG2 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a hidified chamber. Cells were washed with PBST and incubated with a DyLight 594-conjugated secondary antibody (red) in PBS at room temperature in the dark. DAPI was used to stain the cell nuclei (blue).



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Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.